## Claims:

Following is a complete listing of the claims pending in the application.

- 1. (Original) A method of wire-bonding, comprising:
- positioning a first electrode and a second electrode at least proximate to a wire attached to a terminal of a microelectronic component; and
- severing the wire with an electrical discharge between the first and second electrodes.
- 2. (Original) The method of claim 1 wherein severing the wire with the electrical discharge comprises forming a first segment of wire having a first end attached to the terminal and a second, free end with a ball.
- 3. (Original) The method of claim 1, further comprising attaching the wire to the terminal by moving a capillary of a bond head to a position at least proximate to the terminal, and wherein positioning the first and second electrodes comprises moving the first and second electrodes relative to the bond head.
- 4. (Original) The method of claim 1, further comprising attaching the wire to the terminal by moving a capillary of a bond head to a position at least proximate to the terminal, and wherein positioning the first and second electrodes comprises moving the first and second electrodes and the bond head as a unit.
  - 5. (Original) The method of claim 1 wherein:
  - the first electrode comprises a first tip and the second electrode comprises a second tip; and
  - positioning the first and second electrodes comprises positioning the first and second tips on opposite sides of the wire.

- 6. (Original) The method of claim 1 wherein:
- the first electrode comprises a first end portion and the second electrode comprises a second end portion; and
- positioning the first and second electrodes comprises positioning the first and second end portions at an angle generally normal to the wire.
- 7. (Original) The method of claim 1, further comprising grounding the wire before severing the wire.
  - 8. (Original) The method of claim 1 wherein:
  - the first electrode comprises an anode and the second electrode comprises a cathode; and
  - positioning the first and second electrodes comprises positioning the anode and the cathode at least proximate to the wire.
  - 9. (Original) The method of claim 1 wherein: the first and second electrodes form at least part of a wire severing tool; and positioning the first and second electrodes comprises positioning the wire in an opening of the wire severing tool between the first and second electrodes.
  - 10. (Original) A method of wire-bonding, comprising: attaching a wire to a terminal of a microelectronic component; and generating an arc between a first electrode and a second electrode to sever the wire at a point at least proximate to the first and second electrodes, wherein the first and second electrodes are moveable with respect to the wire.
- 11. (Original) The method of claim 10 wherein generating the arc between the first and second electrodes comprises forming a first segment of wire having a first end attached to the terminal and a second, free end with a ball.

- 12. (Original) The method of claim 10, further comprising moving the first and second electrodes relative to a bond head to position the first and second electrodes at least proximate to the wire before generating the arc.
- 13. (Original) The method of claim 10, further comprising moving the first and second electrodes and a bond head as a unit to position the first and second electrodes at least proximate to the wire before generating the arc.
  - 14. (Original) The method of claim 10 wherein:
  - the first electrode comprises a first tip and the second electrode comprises a second tip; and
  - the method further comprises positioning the first and second tips on opposite sides of the wire before generating the arc.
  - 15. (Original) The method of claim 10 wherein:
  - the first electrode comprises a first end portion and the second electrode comprises a second end portion; and
  - the method further comprises positioning the first and second end portions at an angle generally normal to the wire before generating the arc.
  - 16. (Original) The method of claim 10 wherein:
  - the first electrode comprises an anode and the second electrode comprises a cathode; and
  - generating the arc comprises generating the arc between the anode and the cathode.
  - 17. (Original) The method of claim 10 wherein:

the first and second electrodes form at least part of a wire severing tool; and

the method further comprises positioning the wire in an opening of the wire severing tool between the first and second electrodes before generating the arc.

18. (Original) A method of wire-bonding, comprising:

providing a wire severing tool having a first electrode and a second electrode spaced apart from at least a portion of the first electrode to define an opening;

positioning a wire in the opening between the first and second electrodes; and generating an electrical discharge between the first and second electrodes to sever the wire.

- 19. (Original) The method of claim 18, further comprising bonding the wire to a terminal of a microelectronic component with a wire bonder.
- 20. (Original) The method of claim 18 wherein positioning the wire comprises moving the wire severing tool relative to a bond head.
- 21. (Original) The method of claim 18 wherein positioning the wire comprises moving the wire severing tool and a bond head as a unit.
  - 22. (Original) The method of claim 18 wherein:
  - the first electrode of the wire severing tool comprises a first tip and the second electrode comprises a second tip; and
  - positioning the wire comprises moving the wire severing tool to position the first and second tips on opposite sides of the wire.
  - 23. (Original) The method of claim 18 wherein:

the first electrode of the wire severing tool comprises a first end portion and the second electrode comprises a second end portion; and

positioning the wire comprises moving the wire severing tool to position the first and second end portions at an angle generally normal to the wire.

- 24. (Original) A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode each coupled to the bond head; and
  - a controller operably coupled to the first and second electrodes to selectively generate an electrical discharge between the first and second electrodes to sever the wire.
- 25. (Original) The wire bonder of claim 24 wherein the first and second electrodes are attached to a dielectric member.
- 26. (Original) The wire bonder of claim 24 wherein the first and second electrodes are attached to a dielectric member, and wherein the first electrode has a first arcuate portion with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.
- 27. (Original) The wire bonder of claim 24 wherein the first and second electrodes and the bond head are movable as a unit.
- 28. (Original) The wire bonder of claim 24, further comprising a positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
- 29. (Original) The wire bonder of claim 24 wherein the first electrode comprises an anode and the second electrode comprises a cathode.

- 30. (Original) A wire bonder for bonding a wire to a terminal of an electronic component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode disposed relative to the bond head; and
  - a controller operably coupled to the first and second electrodes, the controller having a computer-readable medium containing instructions to perform a method comprising –
  - positioning the first electrode and a second electrode at least proximate to the wire attached to the terminal of the electronic component; and
  - severing the wire with an electrical discharge between the first and second electrodes.
- 31. (Original) The wire bonder of claim 30 wherein the first and second electrodes are attached to a dielectric member.
- 32. (Original) The wire bonder of claim 30 wherein the first and second electrodes are attached to a dielectric member, and wherein the first electrode has a first arcuate portion with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.
- 33. (Original) The wire bonder of claim 30 wherein the first and second electrodes and the bond head are movable as a unit.
- 34. (Original) The wire bonder of claim 30, further comprising a positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
- 35. (Original) The wire bonder of claim 30 wherein the first electrode comprises an anode and the second electrode comprises a cathode.

- 36. (Original) A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode disposed relative to the bond head; and
  - a controller operably coupled to the first and second electrodes, the controller having a computer-readable medium containing instructions to perform a method comprising –

attaching the wire to the terminal of the microelectronic component; and generating an arc between the first and second electrodes to sever the wire at a point at least proximate to the first and second electrodes.

- 37. (Original) The wire bonder of claim 36 wherein the first and second electrodes are attached to a dielectric member.
- 38. (Original) The wire bonder of claim 36 wherein the first and second electrodes are attached to a dielectric member, and wherein the first electrode has a first arcuate portion with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.
- 39. (Original) The wire bonder of claim 36 wherein the first and second electrodes and the bond head are movable as a unit.
- 40. (Original) The wire bonder of claim 36, further comprising a positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
- 41. (Original) A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:
  - a bond head having a capillary; and

- a wire severing tool disposed relative to the bond head, the wire severing tool having a first electrode, a second electrode, and a dielectric member separating the first and second electrodes, the first electrode including a first end portion and the second electrode including a second end portion spaced apart from the first end portion to define an opening for receiving the wire.
- 42. (Original) The wire bonder of claim 41 wherein the wire severing tool and the bond head are movable as a unit.
- 43. (Original) The wire bonder of claim 41, further comprising a positioning mechanism coupled to the wire severing tool to move the wire severing tool relative to the bond head.
- 44. (Original) The wire bonder of claim 41 wherein the first end portion includes a first tip and the second end portion includes a second tip spaced apart from the first tip by a gap sized to receive the wire.
- 45. (Original) The wire bonder of claim 41 wherein the first and second end portions have arcuate configurations.